

GREENFREEZE SRO-500

SAFETY DATA SHEET

Section 1. Identification

Product Name: GreenFreeze SRO 500
Product Description: Synthetic Base Stocks and Additives
Product Code: 201560250520, 600791-85
Intended Use: Compressor oil

Supplier:
GreenFreeze Europe
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 34370 Maraussan
 France
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 Contact : +33 (0) 671264126

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 Belgique 32 70 245 245
 Suisse : 145 (de l'étranger : + 4144 251 51 51)
 Hongrie : + 36 1 321 5215

2. Hazards identification

This material is not hazardous according to regulatory guidelines (see Section 15).

Physical / Chemical Hazards No significant hazards.

Health Hazards High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

Environmental Hazards No significant hazards.

Note This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

3. Composition and information on ingredients

No Hazardous Substance(s) or Complex Substance(s) required for disclosure.

Other ingredients determined not to be hazardous up to 100%.

4. First-aid measures

In all cases seek medical attention.

Inhalation Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Skin Contact Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Eye Contact Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion First aid is normally not required. Seek medical attention if discomfort occurs.

5. Fire-fighting measures

Extinguishing Media	<p>Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.</p> <p>Inappropriate Extinguishing Media: Straight streams of water</p>
Fire Fighting	<p>Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.</p> <p>Hazardous Combustion Products: Smoke, Fume, Sulphur oxides, Incomplete combustion products, Oxides of carbon</p>
Flammability Properties	<p>Flash Point [Method]: >218°C (424°F) [ASTM D-92]</p> <p>Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D</p> <p>Autoignition Temperature: N/D</p>

6. Accidental release measures

Notification Procedures	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Protective Measures	Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgement of the emergency responders.
Spill Management	<p>Land Spill: Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.</p> <p>Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.</p> <p>Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.</p>
Environmental Precautions	Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and storage

Precautions for safe handling	This material is not intended for use in air compressors for breathing applications. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapours from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).
Conditions for Safe Storage	<p>The container choice, for example storage vessels, may effect static accumulation and dissipation. Do not store in open or unlabelled containers.</p> <p>Material is defined under the National Standard [NOHSC:1015] Storage and Handling of Workplace Dangerous Goods.</p>

Other information This material is a static accumulator.

8. Exposure controls and personal protection

Exposure limits/standards for materials that can be formed when handling this product:

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Biological limits	No biological limits allocated
Engineering Controls	<p>The level of protection and types of controls necessary will vary depending upon potential exposure conditions.</p> <p>Control measures to consider: No special requirements under ordinary conditions of use and with adequate ventilation.</p>
Personal Protection	<p>Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.</p> <p>Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Particulate. No special requirements under ordinary conditions of use and with adequate ventilation. For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.</p> <p>Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: Nitrile, Viton. No protection is ordinarily required under normal conditions of use.</p> <p>Eye Protection: If contact is likely, safety glasses with side shields are recommended.</p> <p>Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.</p> <p>Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practise good housekeeping.</p>
Environmental Controls	Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

9. Physical and chemical properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

General Information	<p>Physical State: Liquid</p> <p>Colour: Pale Yellow</p> <p>Odour: Characteristic</p> <p>Odour Threshold: N/D</p>
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Important Health, Safety, And Environmental Information	Relative Density (at 15 °C): 0.835
	Flash Point [Method]: >218°C (424°F) [ASTM D-92]
	Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D
	Autoignition Temperature: N/D
	Boiling Point / Range: N/D
	Vapour Density (Air = 1): > 2 at 101 kPa [Estimated]
	Vapour Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C [Estimated]
	Evaporation Rate (n-butyl acetate = 1): N/D
	pH: N/A
	Log Pow (n-Octanol/Water Partition Coefficient): > 3.5 [Estimated]
	Solubility in Water: Negligible
	Viscosity: 66.5 cSt (66.5 mm ² /sec) at 40 °C 10.1 cSt (10.1 mm ² /sec) at 100°C
	Oxidising Properties: See Hazards Identification Section
Other Information	Freezing Point: N/D
	Melting Point: N/A
	Pour Point: -45°C (-49°F)
	Decomposition Temperature: N/D

10. Stability and reactivity

Chemical Stability	Material is stable under normal conditions.
Conditions To Avoid	Excessive heat. High energy sources of ignition.
Incompatible Materials	Strong oxidisers
Decomposition	Material does not decompose at ambient temperatures.
Hazardous Reactions	Will not occur.

11. Toxicological information

Route of Exposure	Conclusion / Remarks
Inhalation	
<i>Toxicity (Rat): LC50 > 5000 mg/m³</i>	Minimally Toxic. Based on test data for structurally similar materials.
<i>Irritation: No end point data.</i>	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
<i>Toxicity (Rat): LD50 > 5000 mg/kg</i>	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
<i>Toxicity (Rabbit): LD50 > 5000 mg/kg</i>	Minimally Toxic. Based on test data for structurally similar materials.
<i>Irritation (Rabbit): Data available.</i>	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
<i>Irritation (Rabbit): Data available.</i>	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

CHRONIC/OTHER EFFECTS:

Contains: Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitising in test animals and humans. Additional information is available by request.

IARC Classification:

The following ingredients are cited on the lists below:

None. --REGULATORY LISTS SEARCHED--

1=IARC12=IARC2A3=IARC2B

12. Ecological information

The information given is based on data available for the material, the components of the material, and similar materials.

Mobility	Base oil component -- Low solubility and foats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.
Ecotoxicity	Material -- Not expected to be harmful to aquatic organisms.

13. Disposal considerations

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Disposal Recommendations	Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimise skin contact. Do not mix used oils with solvents, brake fluids or coolants.
Empty Container Warning	Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed of. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractors and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

14. Transport information

LAND (ADG) : Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

15. Regulatory information

Material is not hazardous as defined by the Approved Criteria for Classifying Hazardous Substances NOHSC:1008.

Product is not regulated according to the Australian Dangerous Goods Code.

No Poison Schedule number allocated by the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Complies with the following national/regional chemical inventory requirements: IECSC, ENCS, TSCA, DSL, AICS, KECI, PICCS, EINECS

16. Other information

The information and recommendations contained herein are, to the best of Greenfreeze's knowledge and belief, accurate and reliable as of the date issued. You can contact Greenfreeze to ensure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If the buyer repackages this product, it is the user's responsibility to ensure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.

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- Contact Point See Section 1 for Local Contact number
- Safety Data Sheet according to WHS and ADG requirements
- <https://www.greenfreeze.eu/>

End of SDS
